

The Red Eye



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A Few Rules to Live By...

- **Never put steroid drops in an eye unless directed to do so by an ophthalmologist**
 - **follow-up with an ophthalmologist is a must**

A Few Rules to Live By...

- Anesthetic drops are *diagnostic* only
 - retard corneal healing
 - cycloplegics preferred for analgesia

A Few Rules to Live By...

- **Va is the vital sign of the eye**
 - **each eye separately, both eyes together**
 - **if not near normal, try pinhole**
 - **if still not normal, suspect unclear media**

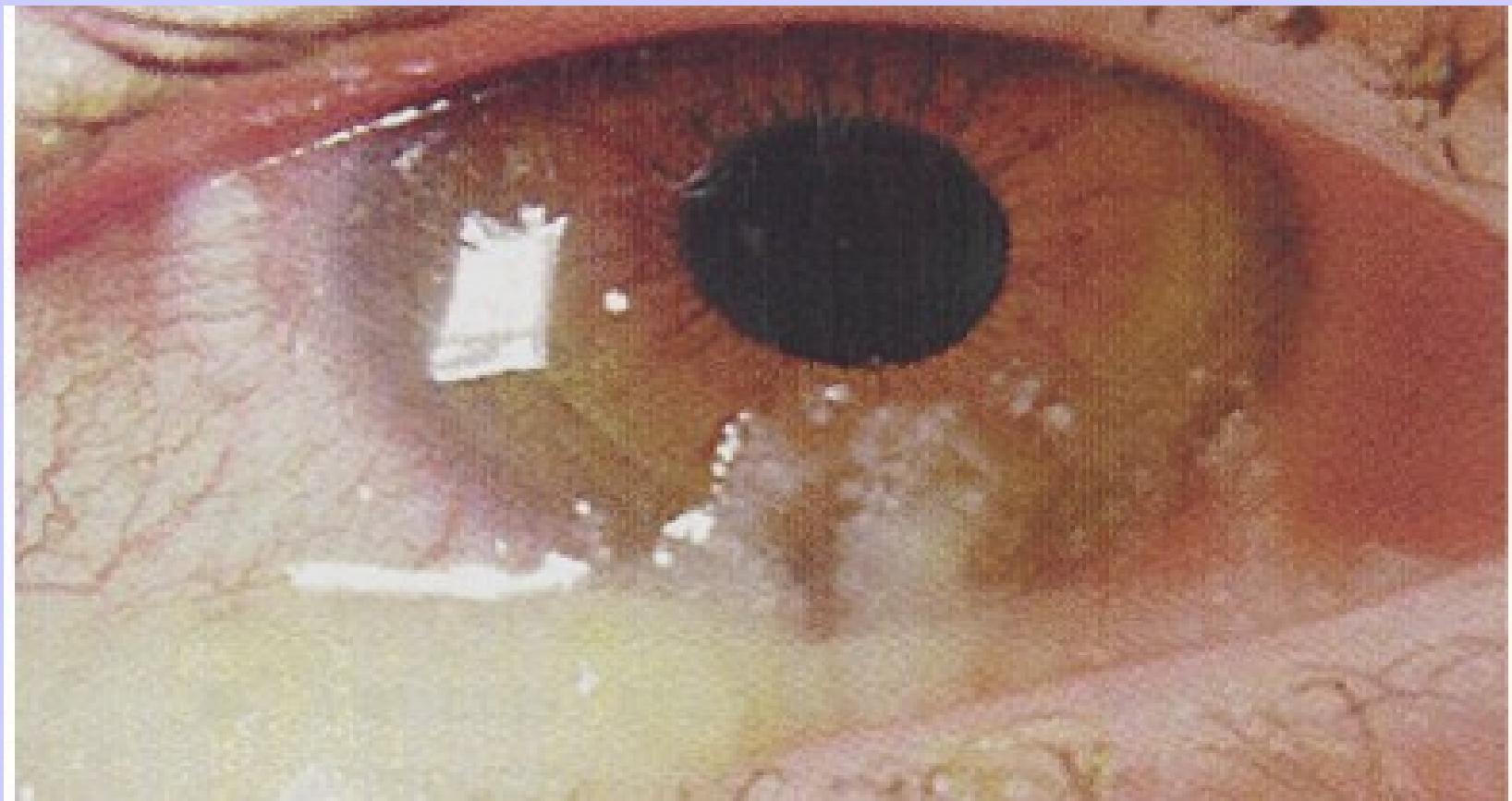
A Few Rules to Live By...

- **Any red eye that does not resolve as expected....**
 - **immediate re-evaluation**
 - **consider referral**

Case #1



Case #1



Case #1

- **Dx: Bacterial Conjunctivitis**
- **Etiology: staph, Hemophilus, S. pneumo**
 - GC, N. meningitidis
- **If Nisseria or chlamydia suspected: Cx**
- **Tx: topical Ciloxan, Polytrim, sulfacetamide, Erythromycin**
 - urgent referral for Nisseria

Case #1

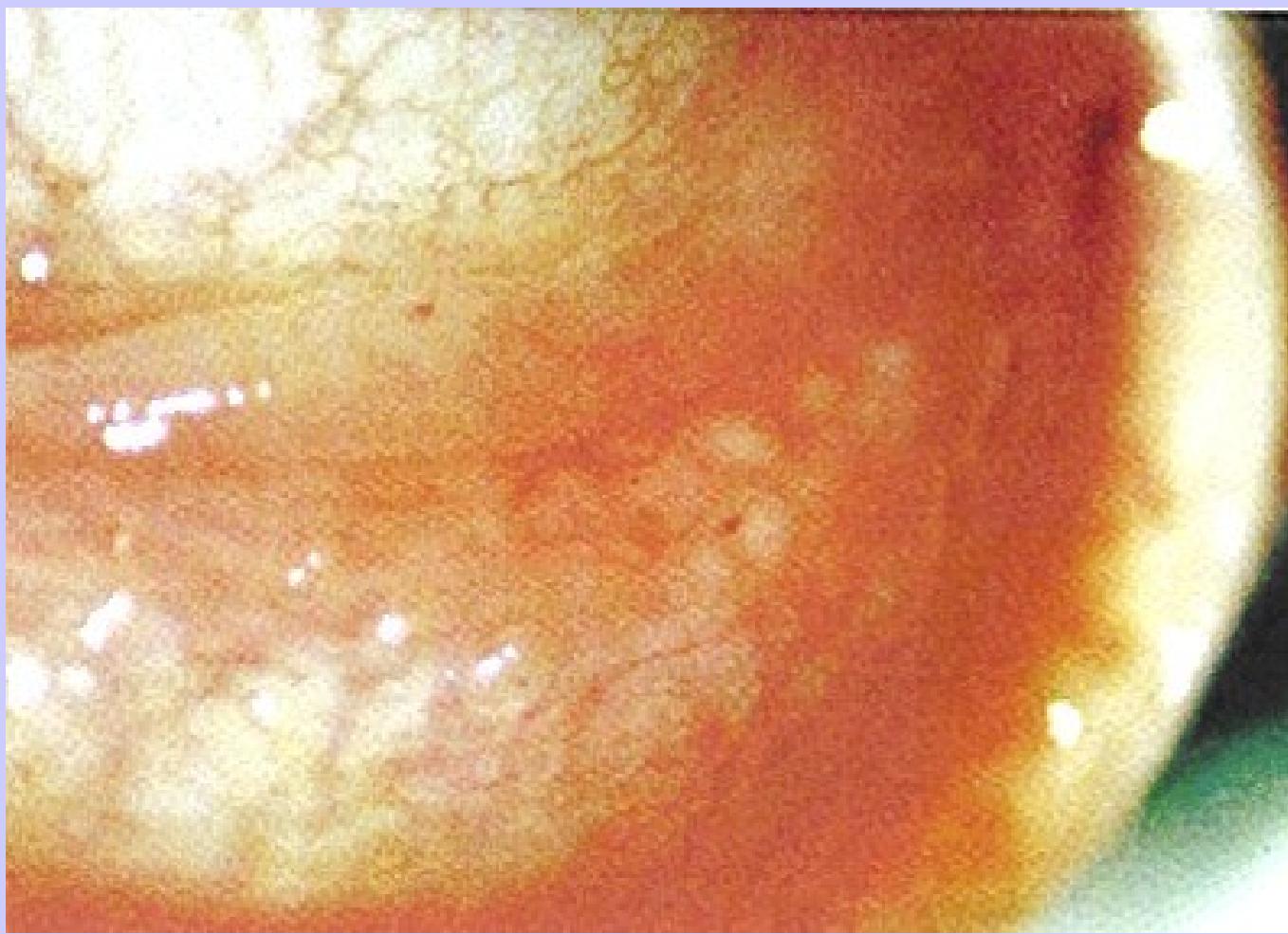
- **DDx:**
 - **Allergic Conjunctivitis**

Case #1

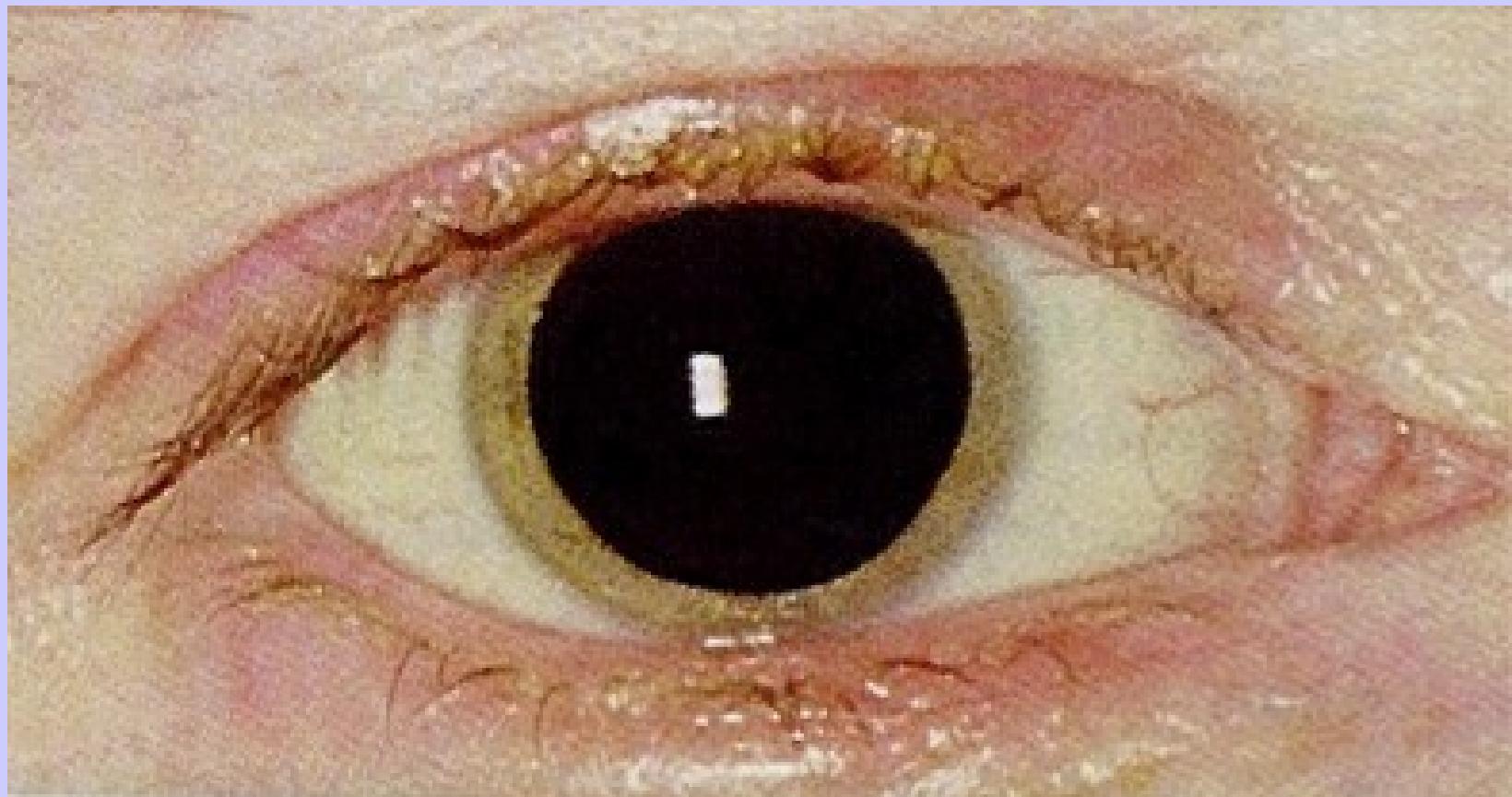
- **DDx:**
 - **Allergic Conjunctivitis**
 - **Neonatal Conjunctivitis**

Case #1

- **DDx:**
 - **Allergic Conjunctivitis**
 - **Neonatal Conjunctivitis**
 - **Viral Conjunctivitis**



Case #2

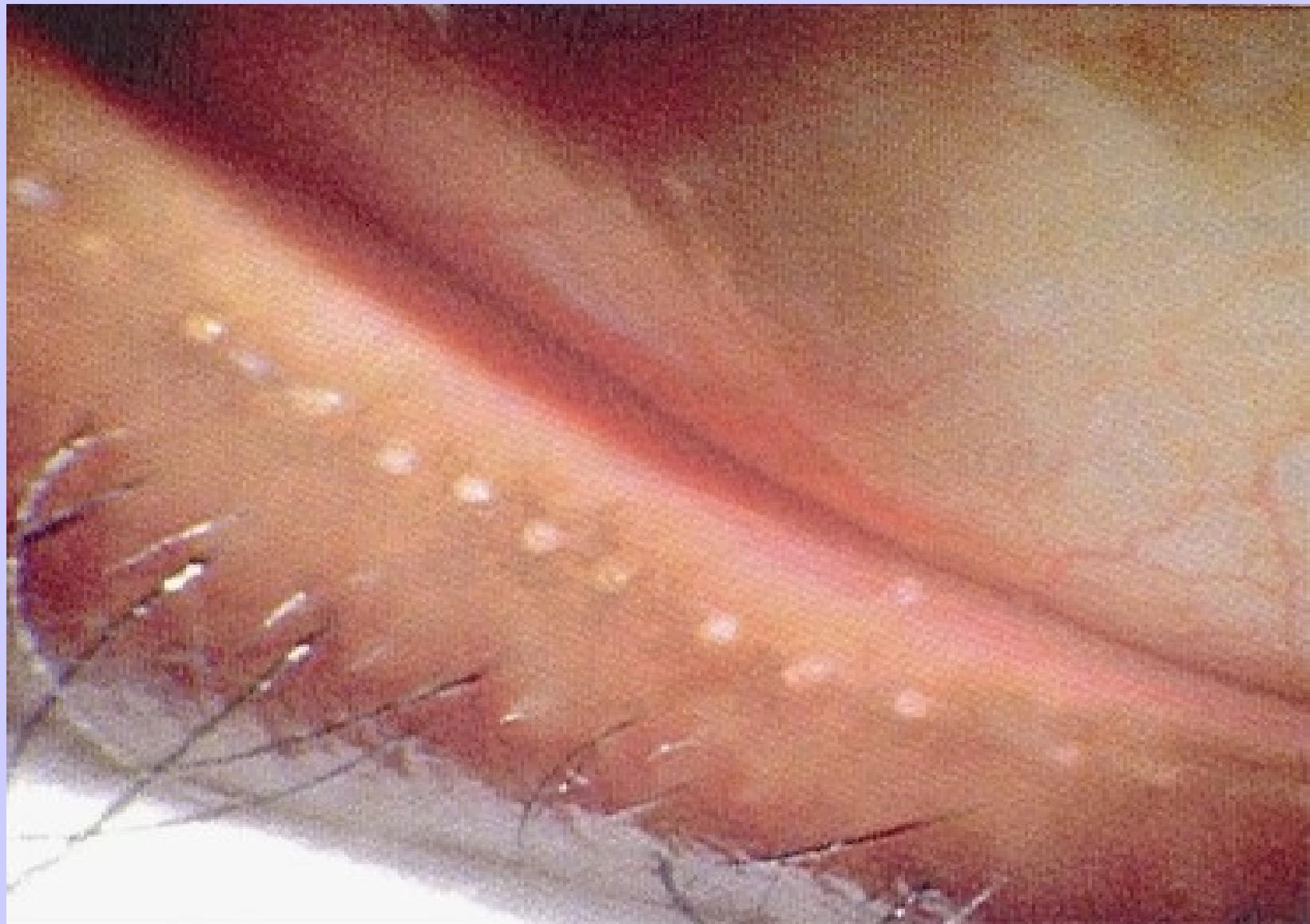


Case #2



Case #2

- **Dx: Blepharitis**
- **Etiology: seborrhea; staph (often assoc w/ hordeola); meibomian gland dysfunction (often assoc w/ chalazia)**
- **Tx: daily lid margin scrubs; massage of lid margins; abx (erythro or Polysporin B unguent; Doxy 50-200mg qd x 6 weeks)**



Case #3



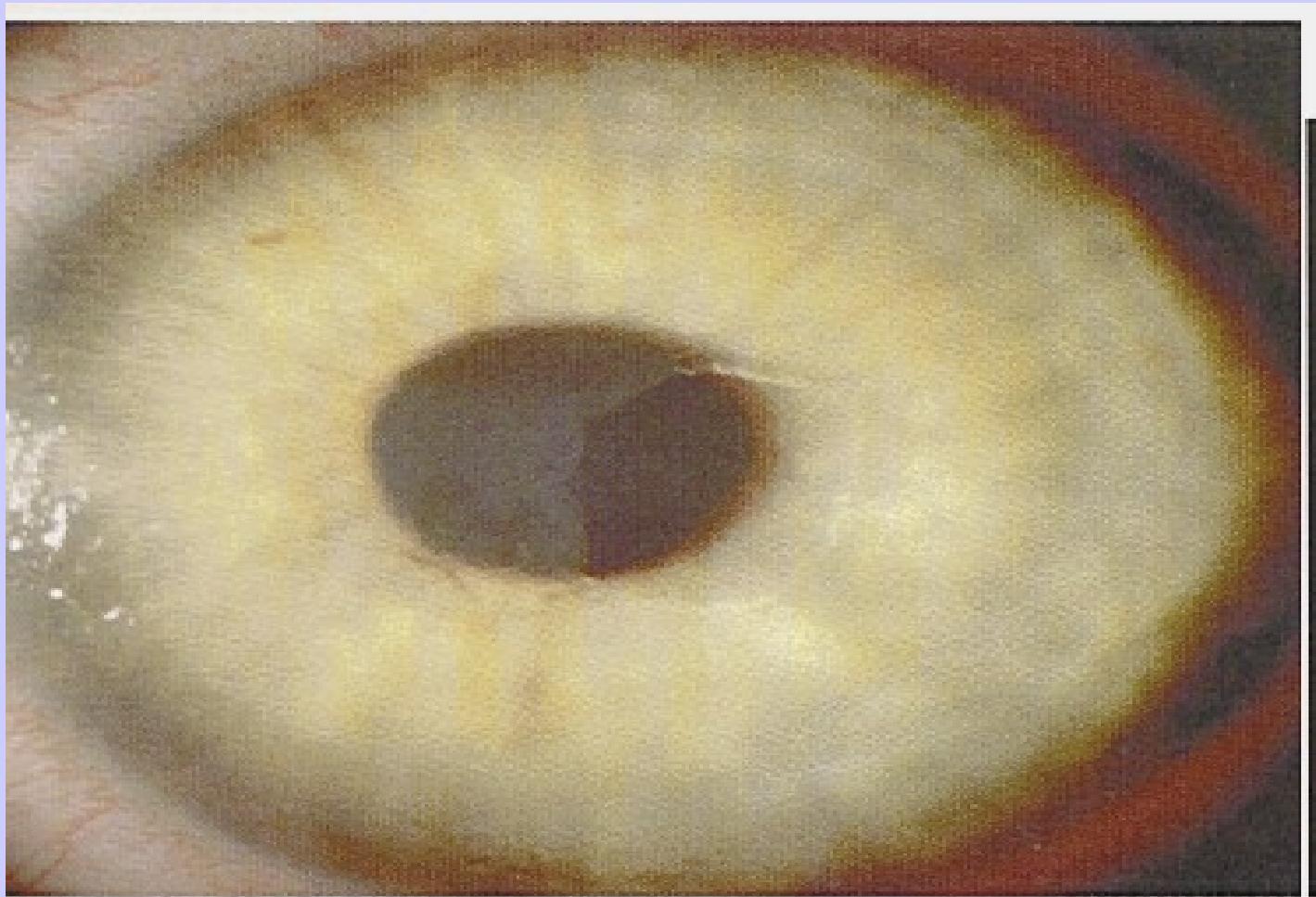
Case #3

- Dx: External hordeolum
- Etiology: staph infxn of a sebaceous gland of the lid
- Tx: warm compress (hard boiled egg) +/- topical abx (e-mycin or bacitracin ung) tid--qid
 - I&D if conservative tx fails (refer)

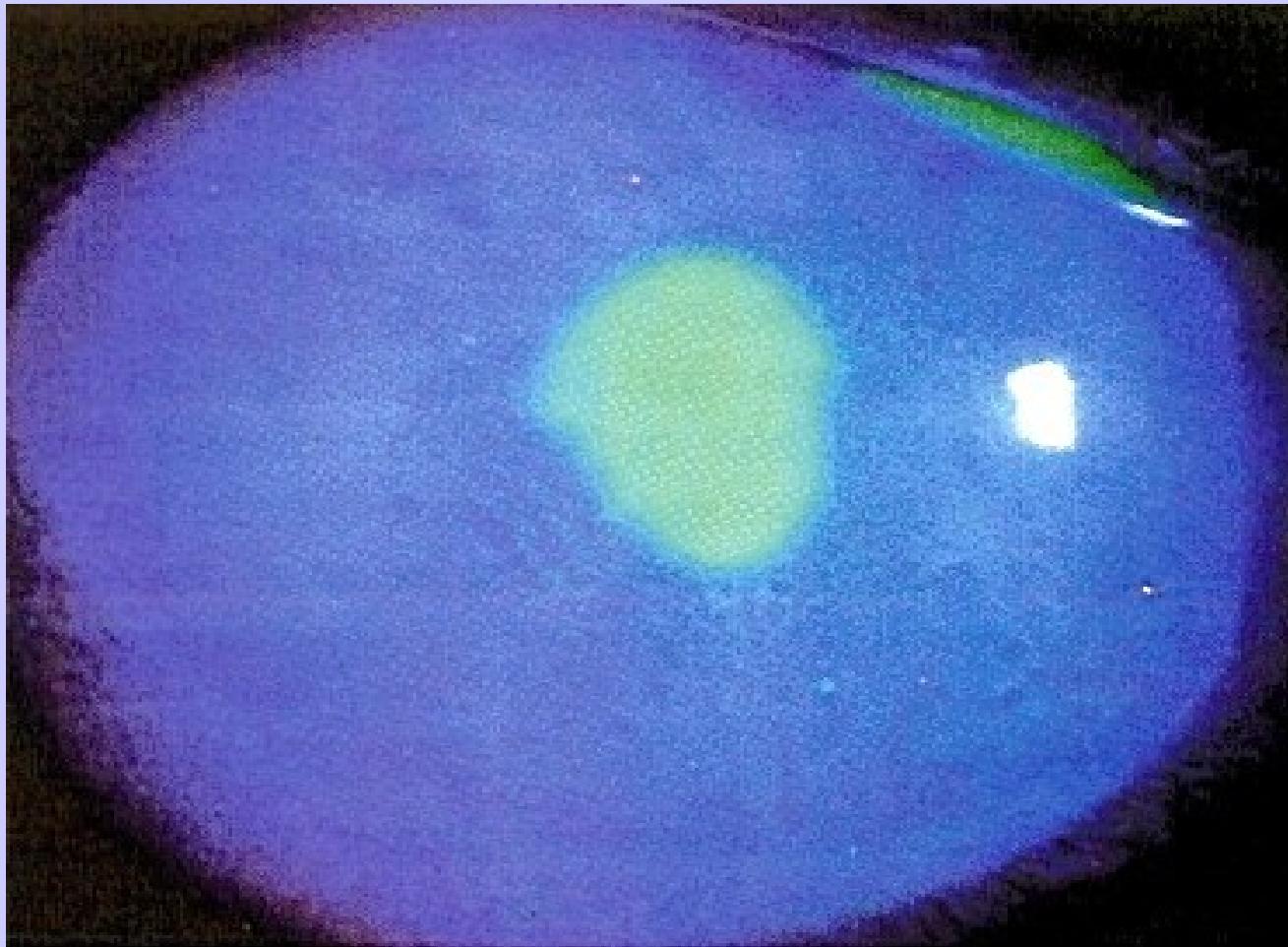




Case #4



Case #4



Case #4

- **DDx: viral keratitis (beware the dendritic appearance of herpes simplex), foreign body, UV injury**
- **W/U: rule out foreign body**

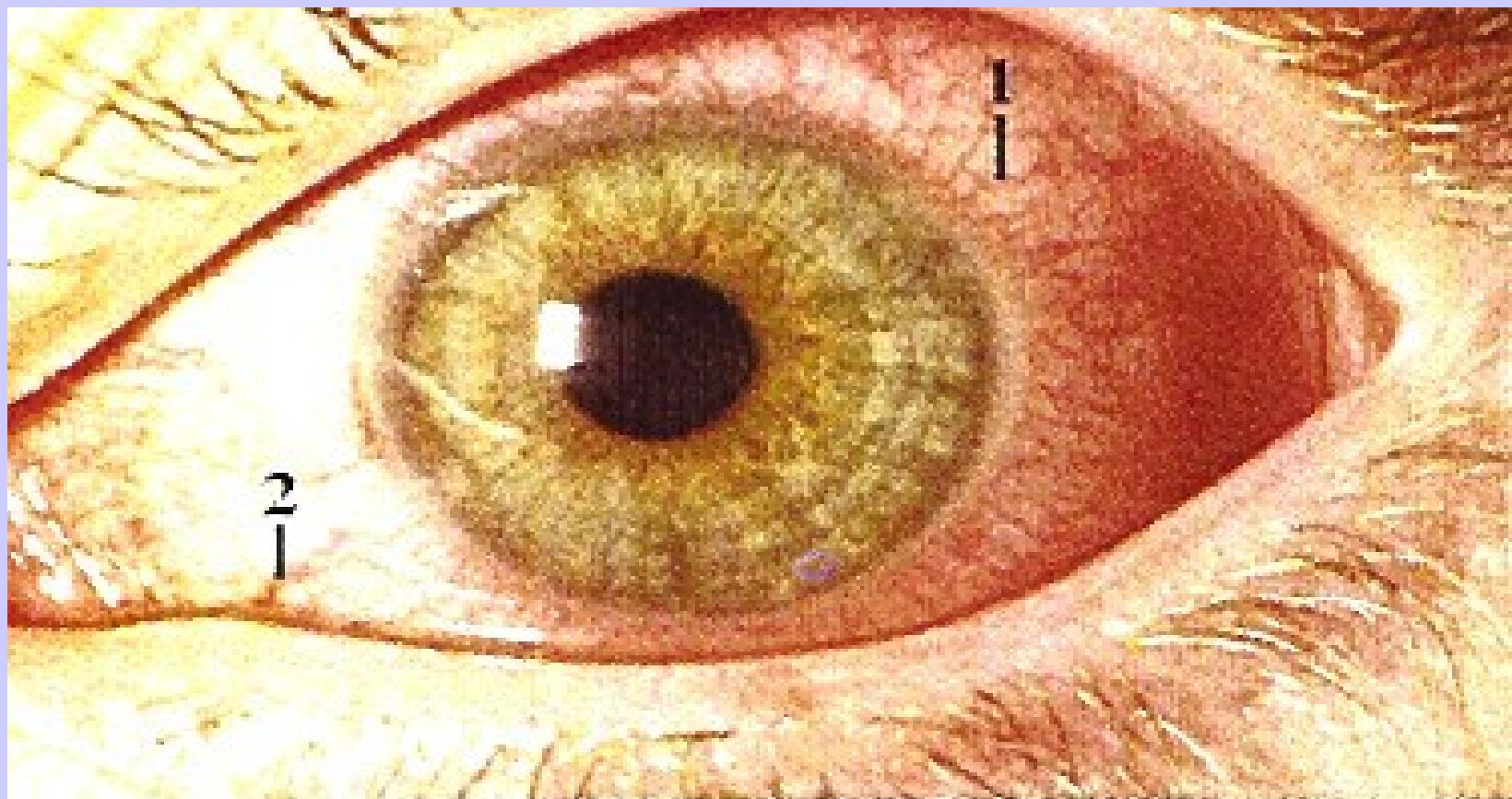
Case #4

- Tx:
 - cycloplegia (homatropine 5%) tid
 - abx unguis (Polysporin or erythro
tid; if caused by vegetable
matter, use Tobramycin ophth
ung)
 - pressure patch x 24hr (max) for
large abrasions (>5-10mm)

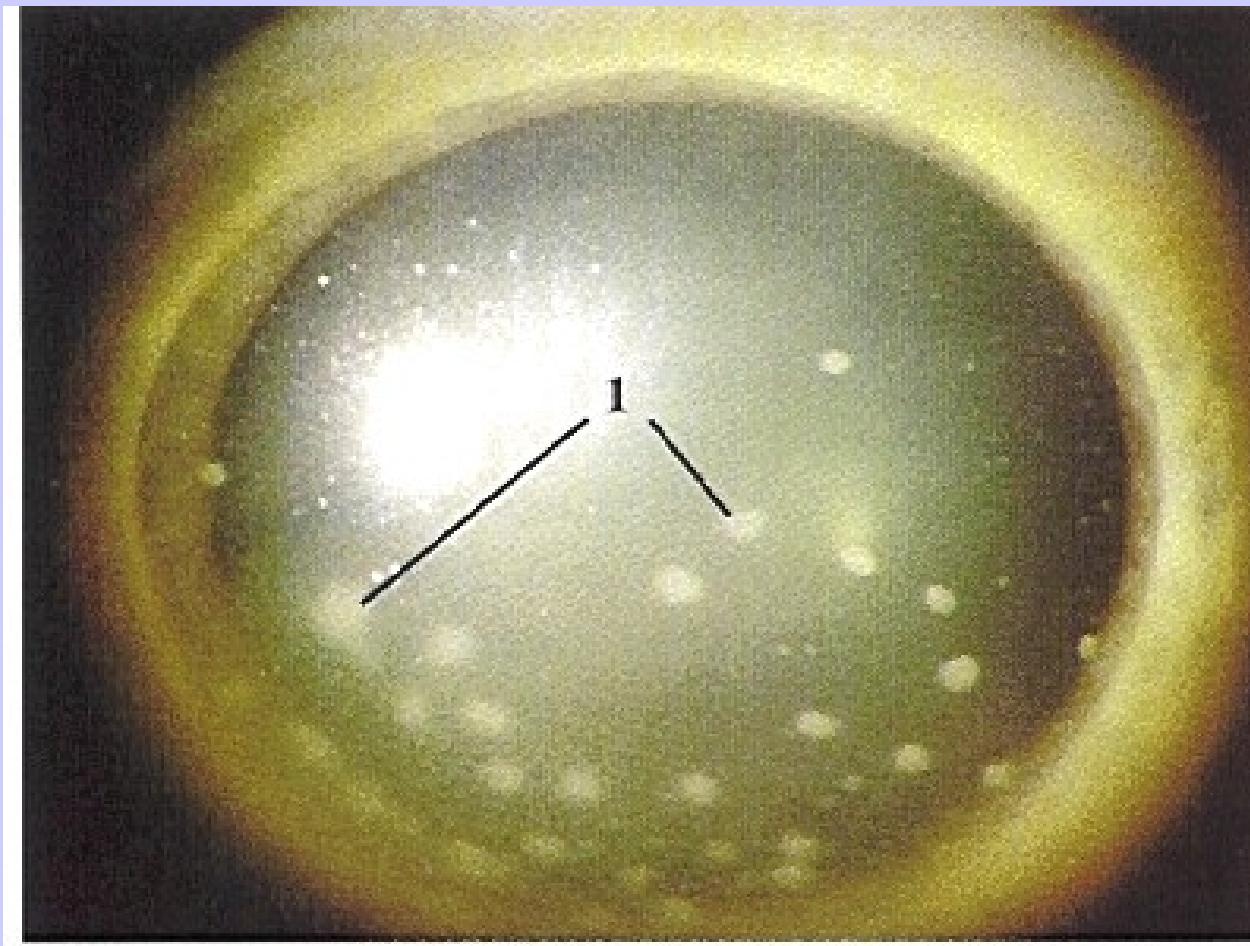
Case #4

- Tx:
 - analgesia w/ oral meds (to include narcotics prn)
 - refer large central abrasions to Ophtho
 - DO NOT give topical analgesics to patient to take home
 - F/u: daily until completely healed; *if this takes >3d, refer.*

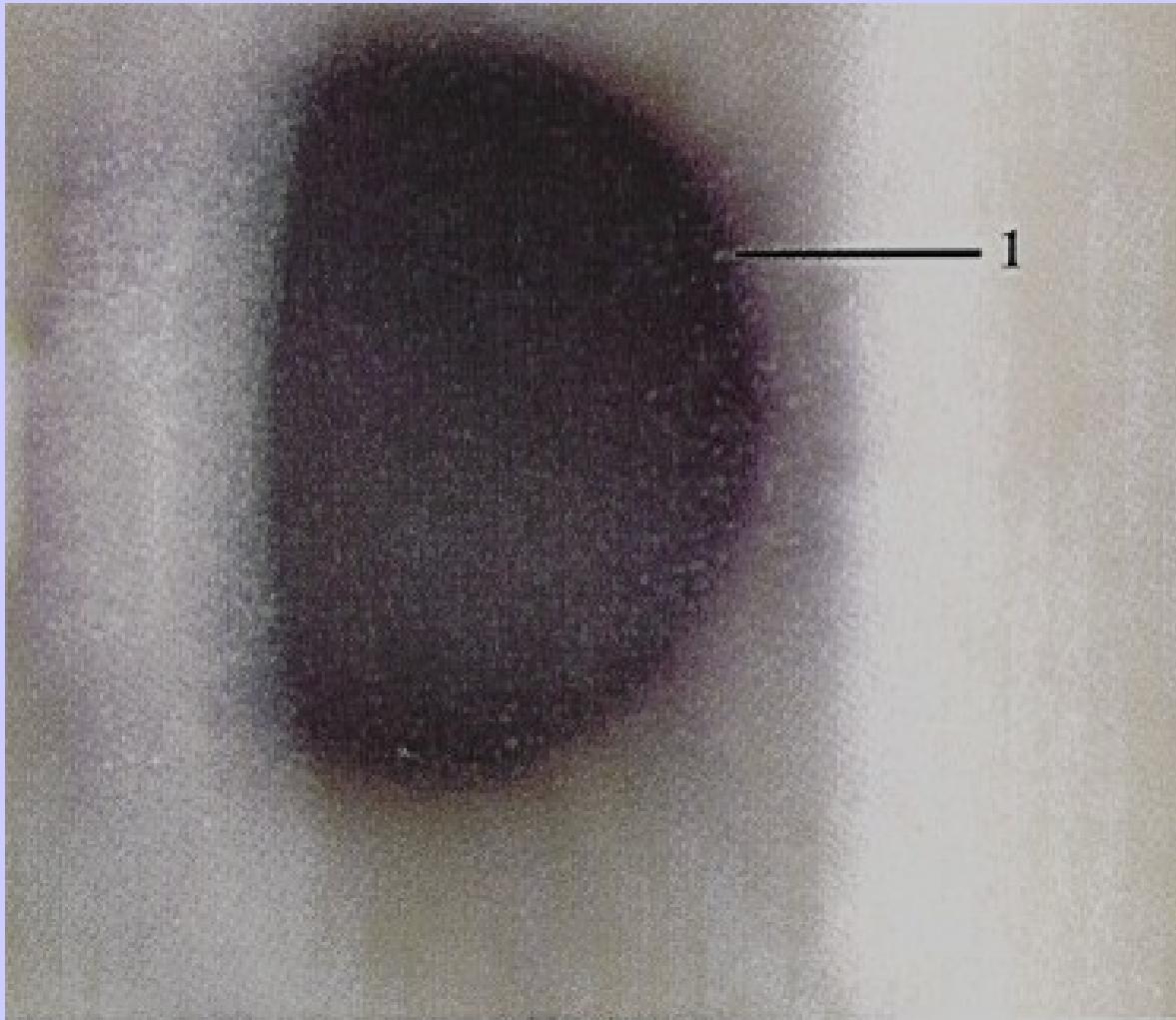
Case #5



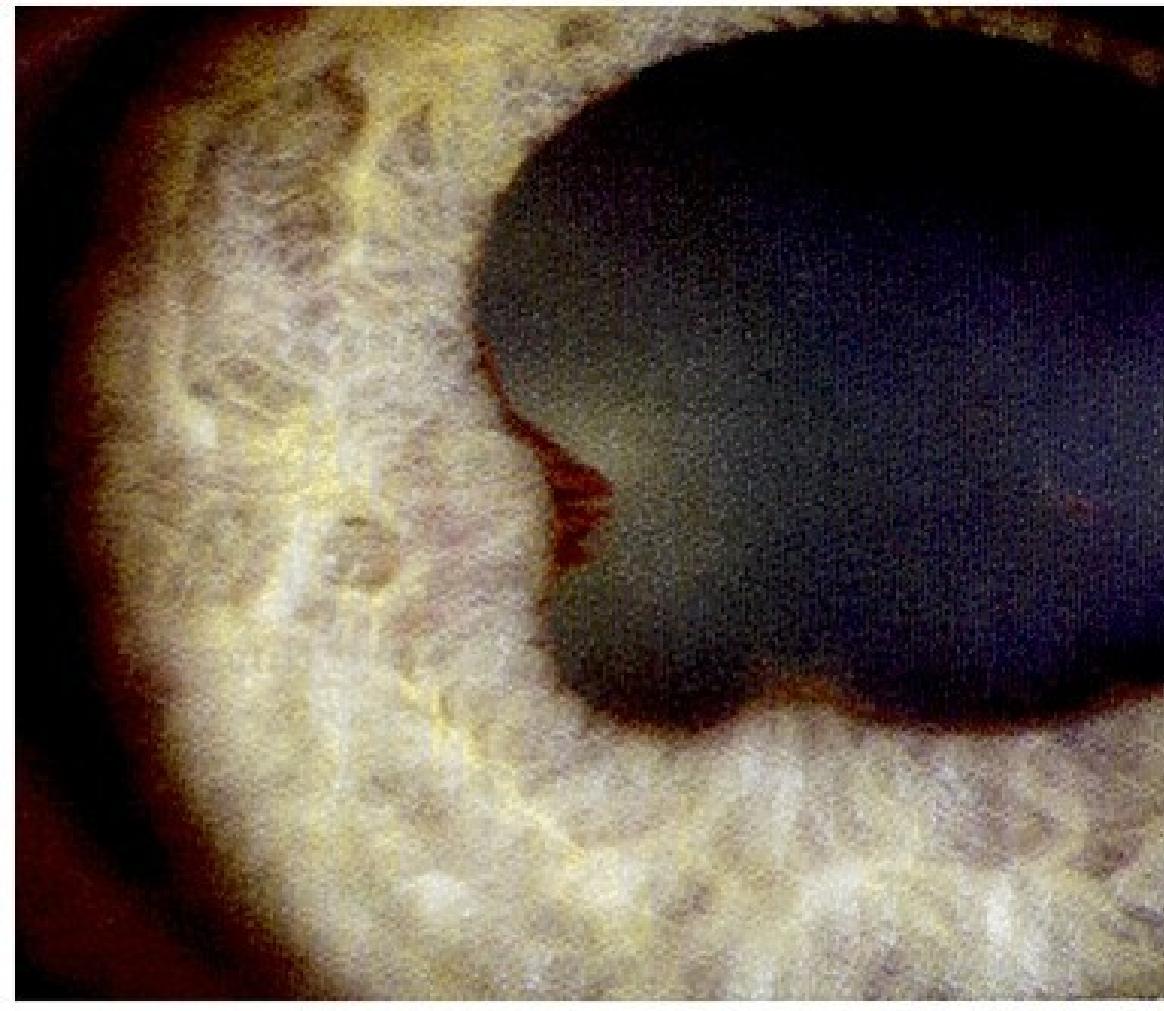
Case #5



Case #5



Case #5



Case #5

- **Etiol: most idiopathic; many systemic causes**
- **W/U: careful H&P, looking for systemic disease**
 - **for unilateral, first-episode disease, unremarkable hx and exam, no w/u needed**
 - **for bilateral, recurrent disease, systemic w/u indicated**

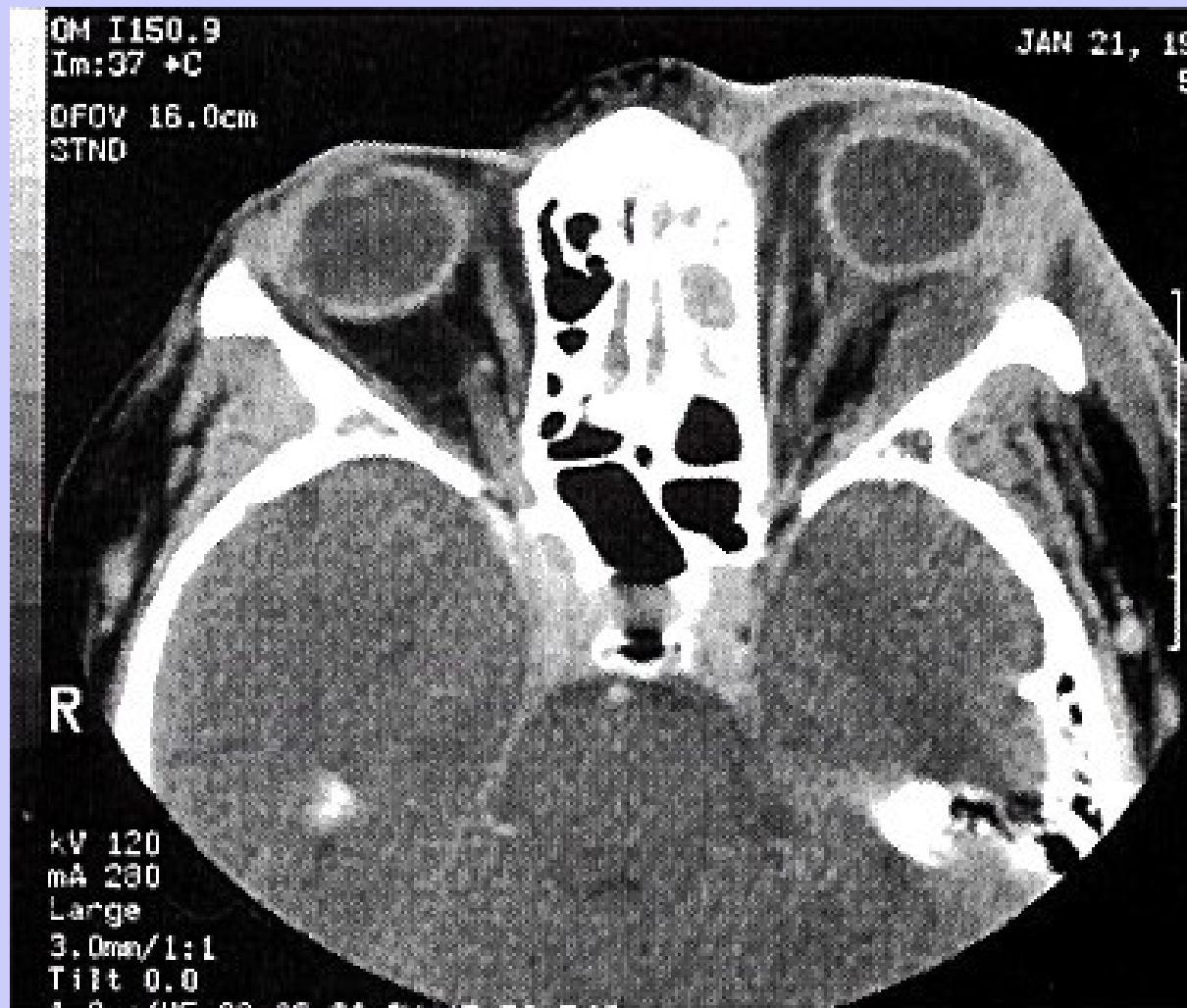
Case #5

- Tx:
 - ***ophtho referral w/in 24h***
 - **cycloplegia (topical homatropine 5% bid)**
 - **topical steroid (Pred-Forte 1%)**
initiated by an ophthalmologist

Case #6



Case #6



Case #6

- **Dx: Orbital Cellulitis**
- **Tx:**
 - ***IMMEDIATE Ophtho referral***
 - **IV broad-spectrum abx**
 - **surgical drainage for large abscess**
- **F/u: ensure cavernous sinus thrombosis doesn't develop**

Case #6

- **DDx: Preseptal Cellulitis**
- **Sx:**
 - **pain with EOM due to lid discomfort**
 - **no diplopia**
 - **lack of systemic toxicity**
- **Etiol: URI, sinusitis, lid trauma, hordeolum**

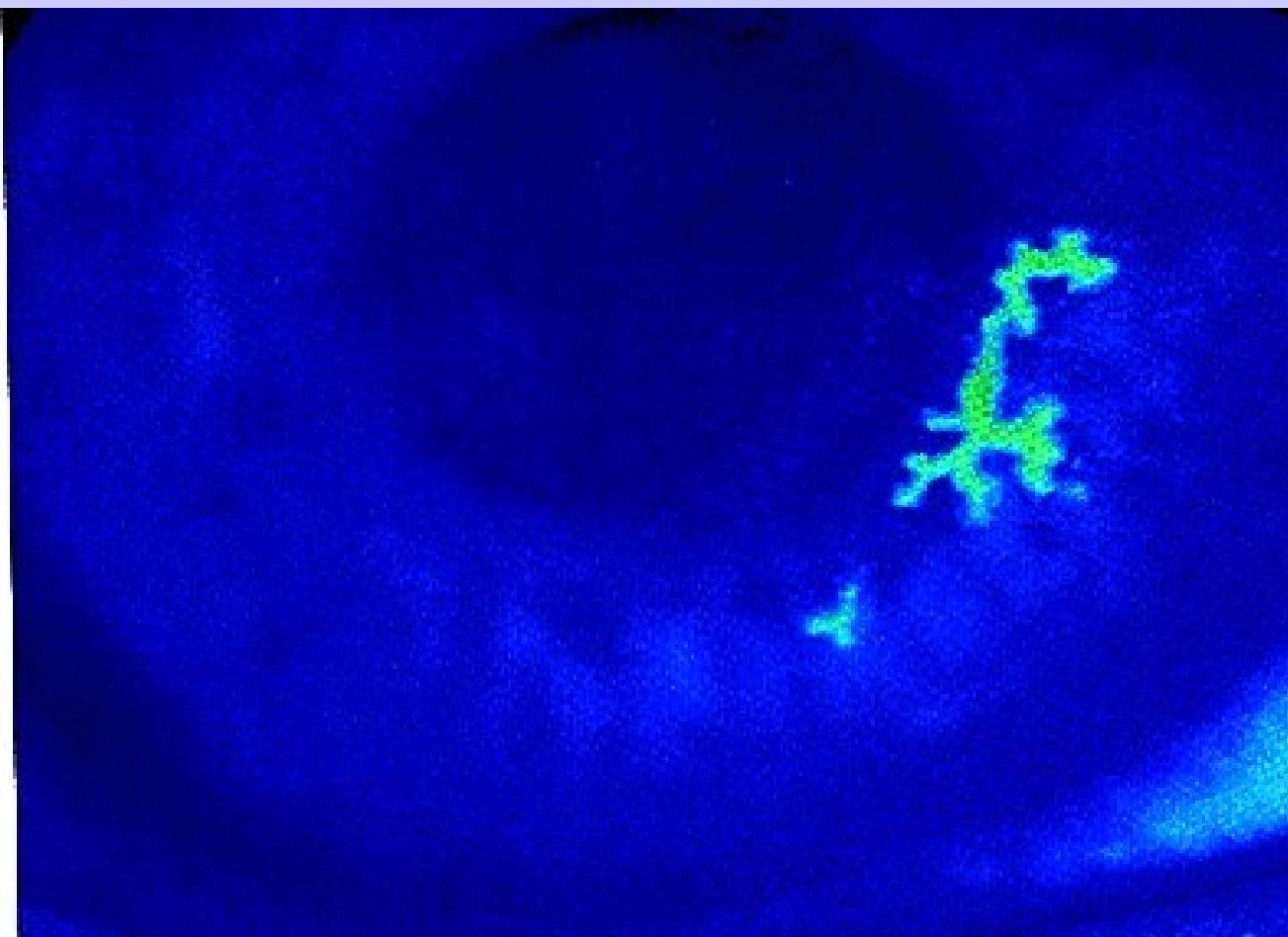
Case #6

- Tx (**Preseptal Cellulitis**)
 - **mild cellulitis** - oral broad-spectrum abx
 - **severe** - IV broad-spectrum abx
 - **child < 2 yrs: admit for IV abx**
- F/u: **ensure orbital cellulitis doesn't develop**

Case #7

- 26 y.o. M c/o 1 day of irritation, photophobia, pain mild OD
- Exam: Va 20/20 OU; mild conj. Injection; nl EOM and pupillary light reaction

Case #7



Case #8

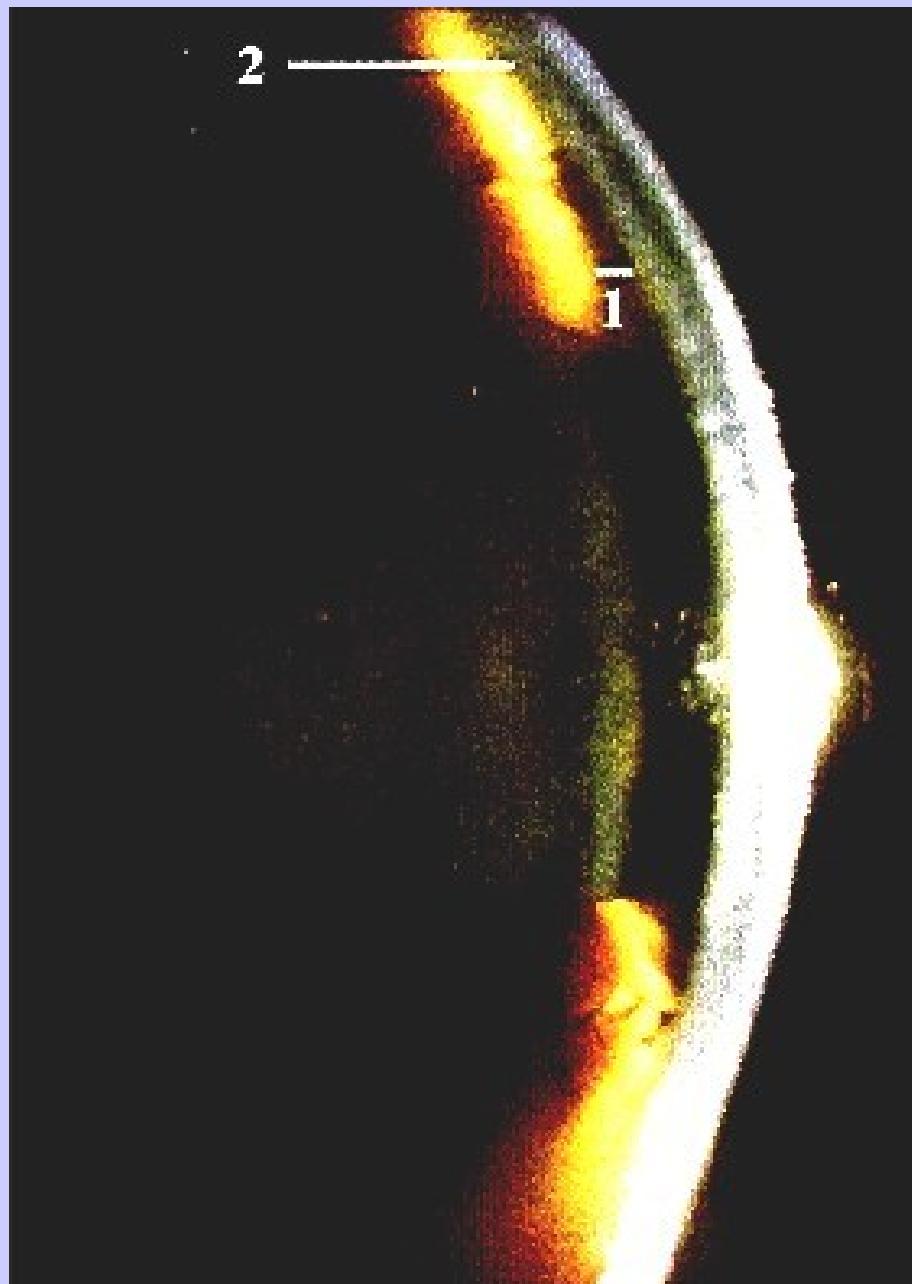


Case #9

- **66 y.o. F c/o intense pain and photophobia OD while sitting in theater**
 - blurred vision
 - seeing halos around lights
 - lightheaded

Case #9





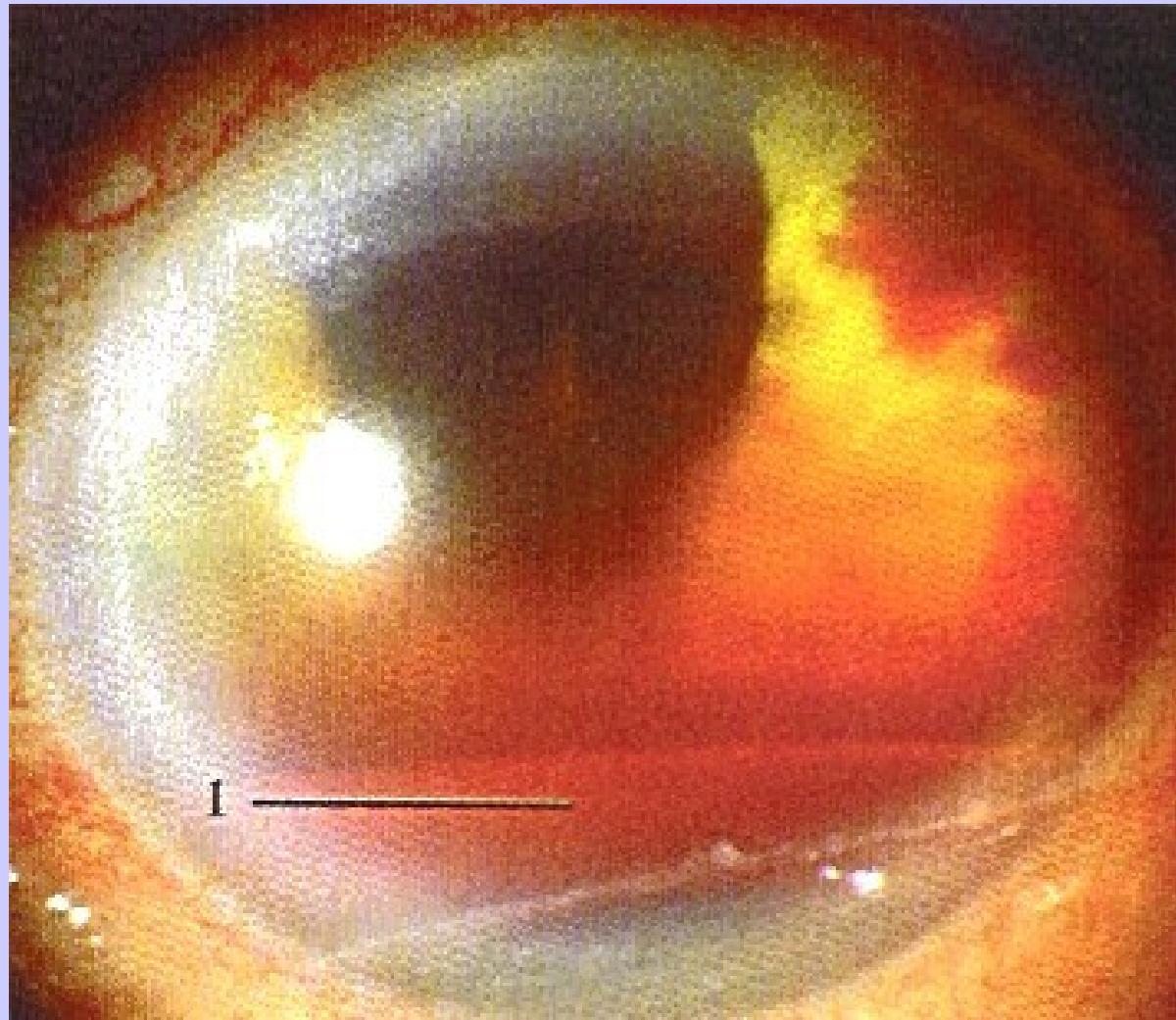
Case #9

- Tx:
 - ***IMMEDIATE REFERRAL***
 - lower IOP
 - **beta-blocker (Timolol 0.5%)**
 - **Carbonic anydrase inhibitor (Diamox PO)**
 - **Osmotic agents (isosorbide PO or IV mannitol)**

Case #10



Case #11



Case #11

- Tx:
 - ***refer immediately***
 - **shield affected eye immediately (no patch)**
 - **bed rest w/ head up**
 - **cycloplegic agents (atropine sulfate 1%) if clot < 24-48 hrs old**
 - **antiemetic, analgesic prn (no ASA or NSAIDs)**

Case #12

